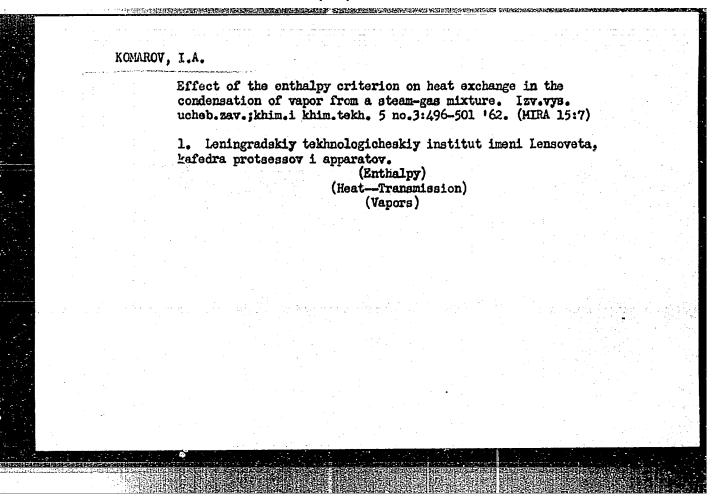


# Heat transfer accompanied by the condensation of vapor from a vapor-gas mixture. Izv. vys. ucheb. zav.; khim. i khim. tekh. 4 no. 2:303-309 '61. (MIRA 14:5) 1. Leningradskiy tekhnologicheskiy institut im. Lensoveta. Kafedra protsessov i apparatov. (Gases) (Water vapor) (Heat—Transmission)



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Pear								*.										٠.	2	
Pear	tree	with	its	own	root	s. Sa	d 1.	og.	no.	6,	1952	•				2.1				
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	RUBAN,	Ye.L.	KOHA	POV.											•	
		Treats	ment of sada no	tree .17:54	and si -56 19	irub 86	seds 1	with t	ıltra	sonic	s Major	s. Bi	ul.G	lav. 8:3)		
		1. 6	lavnyy (Ultro	botani asonic	cheski wave:	ly sad Phy	Akade siolo	emii : gical	nauk effe	SSSR, ct) (	Germ	inatio	n)		₽.	
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KOMAROV, I. A.

"The Biological Basis for the Time of Grafting of Cultivated Varieties of Lilacs." Cand Biol Sci, Inst of Forestry, Acad Sci USSR, Moscow, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

KOŁ	AROV, I.A.			
<b>300</b> 2 35-2	Rooting of orological	lilac cuttings in various substrata as a conditions. Biul.Glav.bot.sada no.21:53	3-55 155.	
	1. Glavnyy	botanicheskiy sad Akademii nauk SSSR. (Lilacs)	(MERA 8:12)	
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# KOMAROV I A

Period for rooting cuttings of the lilac and certain other shrubs. Biul.Glav.bot sada no.22:30-38 '55. (MLRA 9:5)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Plant cuttings) (Shrubs)

# Effect of certain factors on the rooting capacity of summer cuttings of cultivated lilac. Biul. Clav. bot. sada no. 26:38-44 '56. (MLRA 10:2) 1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Lilacs) (Plant cuttings)

Anatomical structure of the shoot as a rooting capacity indicator for lilac cuttings. Biul (Slav. bot. sada no. 27:40-45 '57.

(MIRA 10:5)

1.Glavnyy botanicheskiy sad Akademii nauk SSSR.

(Lilica) (Plant cuttings) (Botany-Anatomy)

26-58-7-32/48

AUTHOR:

Komarov, I.A., Candidate of Biological Sciences

TITLE:

Open-Ground Rhododendrons and Azaleas (Gruntovyye rododendrony

i azalii)

Priroda, 1958, Nr 7, pp 111-113 (USSR)

ABSTRACT:

PERIODICAL:

The Main Botanical Garden of the AN USSR planted several rhododendron types in open ground in 1942, where they have stayed since then, grew, flowered profusely and bore ripe seeds. In winter, the plants are easily protected from cold winds by simple frames of wood and tar paper. There are also many suitable azalea types which yield excellent results when their cultivation is started in green houses. The Rh. Cunninghami, Cunningham's White, Rh. macrophyllum, Rh. kamtschaticum, Rh. Chamaecistus, Rh. catawbiense and Azalea pontica and Az. sinensis types are mentioned. In clayey soils, only Rhodorastrum species can be cultivated. Detailed cultivation instructions are given for rhododendrons, hints for azaleas.

There are 2 photos.

Card 1/2

		Open-Ground R	hododendrons and Azaleas		26-58-7-32/48
	•	ASSOCIATION:	Glavnyy botanicheskiy sad al Garden of the AN USSR	AN COOD Wall	(The Main Botanic-
			1. BotanyUSSR		
		00-3 0/0			
		Card 2/2			
15 19 NO 25 1 S IS					

LAPIN, P.I.; KOMANOV, I.A.; LEONOV, A.G.; MAZURKEVICH, F.S.; MAKAROV, S.H.; MARTZA YANOV, P.B.; MOSUNOVA, D.I. [deceased]; SAKHAROV, I.M.; SIDNEVA, S.V.; TSITSIN, H.V., akademik, otv.red.; MAKAROV, S.N., red.izd-va; GUSEVA, A.P., tekhn.red.

[Trees and shrubs; results obtained in the Main Botanical Garden of the Acedemy of Sciences of the U.S.S.R.] Derevia i kustarniki; kratkie itogi introduktsii v Glavnom botanicheskom sadu Akademii neuk SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1959.

190 p. (MIRA 12:10)

1. Moscow. Glavnyy botanicheskiy sad. (Trees) (Shrubs)

KOGAN, B.M. (Moskva, ul. Kachalova, d. 10, kv. 5); KOMAROV, I.A.

Electrocardiographic changes in pulmonary infarcts developing after mitral commissurotomy. Grudn. khir. 4 no.5:52-53 S-0'62 (MIRA 17:3)

1. Iz laboratorii funktsional'noy diagnostiki (zav. - kand. med. nauk G.G. Gel'shteyn) i otdeleniya priobretennykh zabo-levaniy serdtsa (zav. - prof. S.A. Kolesnikov) Instituta grudnoy khirurgii AMN SSSR (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N. Bakulev).

SHISHKIN, V.P., doktor med.nauk; KOMAROV, I.A., kand.med.nauk

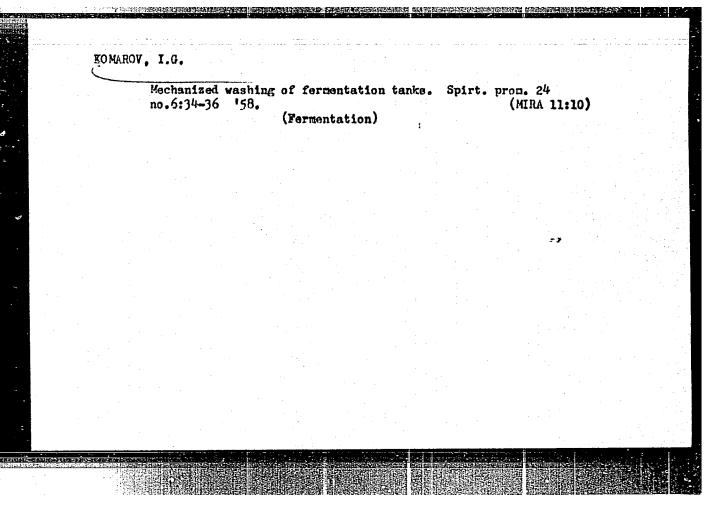
Results of the treatment of varicose veins of the lower extremities by Teprover and Nesterov's new method. Trudy KGMI no.10:330-334 (MIRA 18:1)

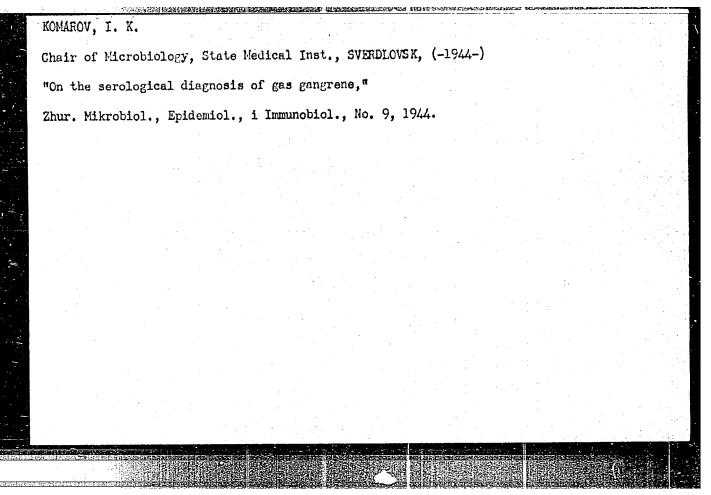
1. Iz kafedry obshchey khirurgii (zav. kafedroy - prof. V.P. Shishkin) Kalininskogo gosudarstvennogo meditsinskogo instituta.

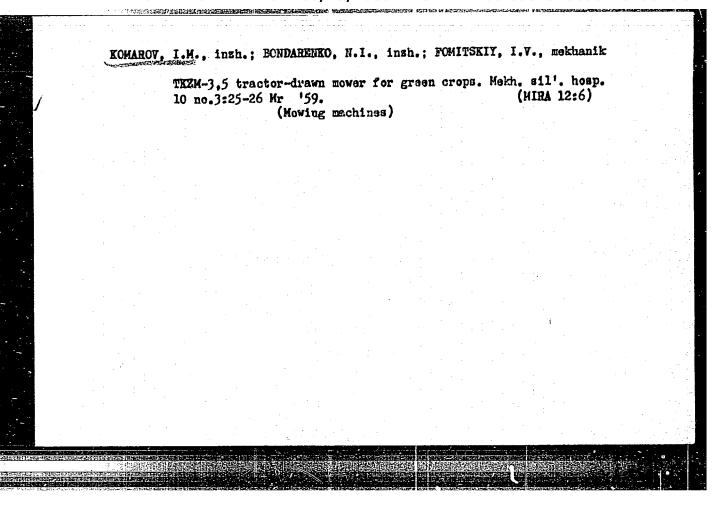
KOMAROV, I.A., kand.med.nauk

Blood coagulability in obliterating endarteritis and atherosclerosis of the lower extremities. Trudy KGMI no.10:352-356 '63. (MIRA 18:1

1. Iz kafedry obshchey khirurgii (zav. kafedroy-professor V.P. Shishkin) Kalininskogo gosudarstvennogo meditsinskogo instituta.







M. I. VORAMON. USSE/Engineering-Measuring instruments : 1/1 Card : Komarov, I. M., Cand. in Tech. Schences Authors f Effect of illumination of scales of universal measuring instruments on Title the speed and accuracy of calculations vest. Mash. 34/5, 87 - 88, May 1954 Poriodical Experiments were made to determine the accuracy of reading sliding Abstract calipers and other instruments, which varying degrees of illumination. Graphs and tables were made of the instruments, based on these measurements, which demonstrated, that the accuracy improved, when the illumination was increased over that intimarily used in workshops. Institution : Submitted

Card 1/1 : Pub. 128—9/33

Authors : Konarov, I. M., Cand. Tech. Sci.

Title : Heat phenomena during sharpening

Periodical : Vest. mash. 34/8, 35-36, Aug 1954

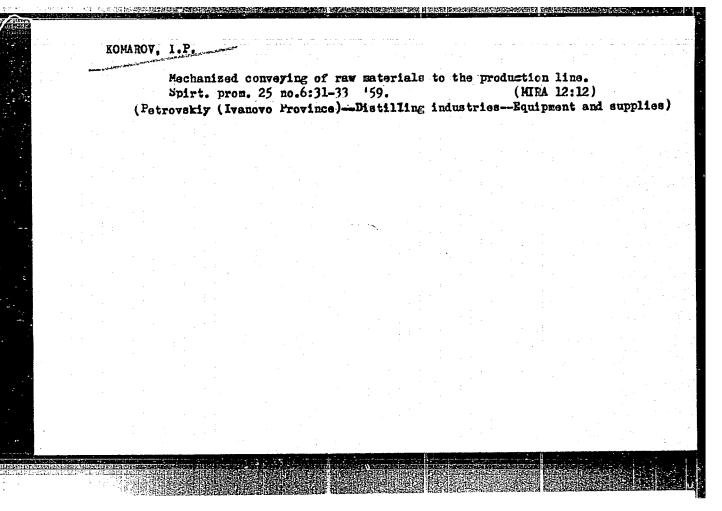
Abstract : The results of a study which was conducted to determine the effect of sharpening on the heat factor in a part being machined, are presented and a method of establishing a balance for this heat factor, is described. Three Russian references: (1915-1951). Drawing.

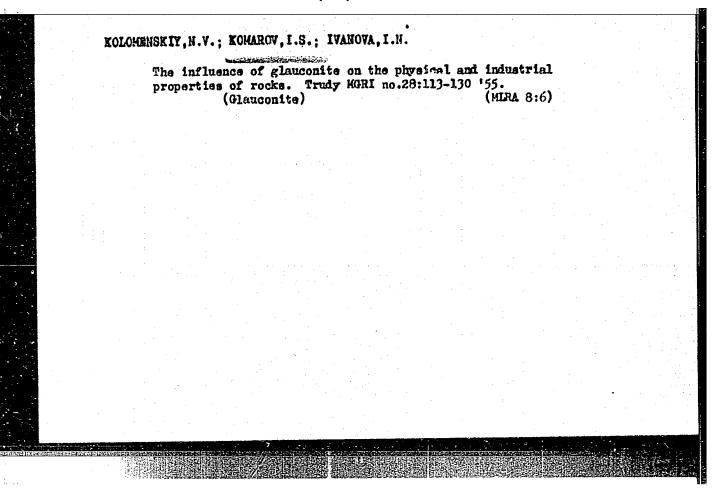
Institution: .....

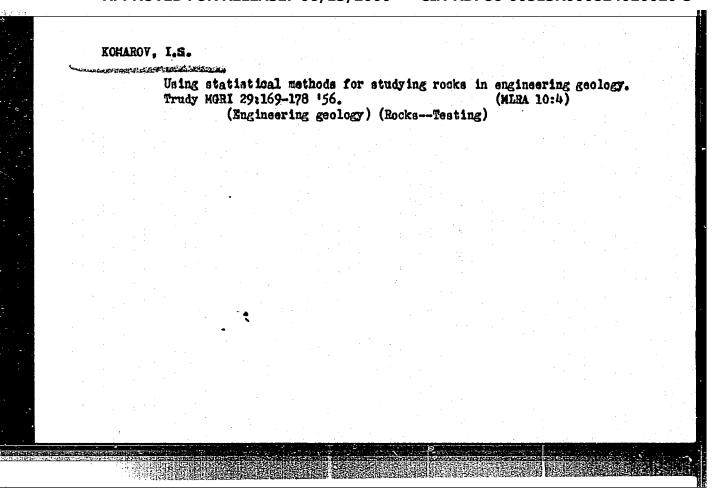
Submitted : .....

Would temperature indicators for investigating the heat penetration range in turnet workpieces. Vest.mash. 36 no.11:46-47 N \*56.

(Metal cutting) (Thermometry)







SOV-132-58-9-14/18

AUTHORS:

Shirokov, A.S.; Kupalov Yaropolk, I.K., and Komarov, I.S.

TITLE:

The XXII Congress of the Cerman Geophysical Society (XXII

S"yezd Germanskogo geofizicheskogo obshchestva)

PERIODICAL:

Razvedka i okhrana nedr, 1958, Nr 9, pp 52-54 (USSR)

ABSTRACT:

The above mentioned conference took place in Leipzig in May 1958. The authors, who represented the USSR, give a report

on the activities of the conference.

ASSOCIATIONS: 1) Ministerstvo geologii i okhrany nedr SSSR (Ministry of Geology and Conservation of Mineral Resources of the USSR)

2) Gosplan SSSR (Gosplan of the USSR)

3) VNII-geofizika (VNII - Geophysics).

1. Geophysics--Germany

Card 1/1

KOLOMENSKIY, N.V.; KOMAROV, I.S.; Prinimali uchastiye: IVANOVA,
I.N.; DROZODV, S.V.; ZAKHAROVA, N.A., red.

[Engineering geology] Inzhenernaia geologiia. IAroslavl',
Vysshaia shkola, 1964. 480 p. (MIRA 17:6)

## HOLOMENSKIY, N.V. KOHAROV, I.S.

Lenin's ideas on the electrification of the country and problems of engineering geology related to hydrotechnical power contructions.

Izv.vys.ucheb.zav.; geol. i razv. 3 no.5:3-10 My '60. (MIRA 13:11)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze. (Lenin, Vladimir Il'ich, 1870-1924) (Electrification) (Engineering geology)

KOMAROV, I.S.; SADOV, A.V.; TAGUNOVA, L.N.

Role of gecbotanical methods in the general complex of engineering geological surveys. Trudy MOIP 8:108-114 '64.

(MIRA 17:12)

KOLOMENSKIY, N.V.; DUHROVKIN, V.L. [deceased]; KOMAROV, I.S.

Principles of state mapping from the viewpoint of engineering geology. Sov. geol. 7 no.3:76-80 Mr '64.

(M RA 17:10)

1. Moskovskiy geologorazvedochnyy institut im. S. Ord honikidze.

## KOMAROV, I.S.

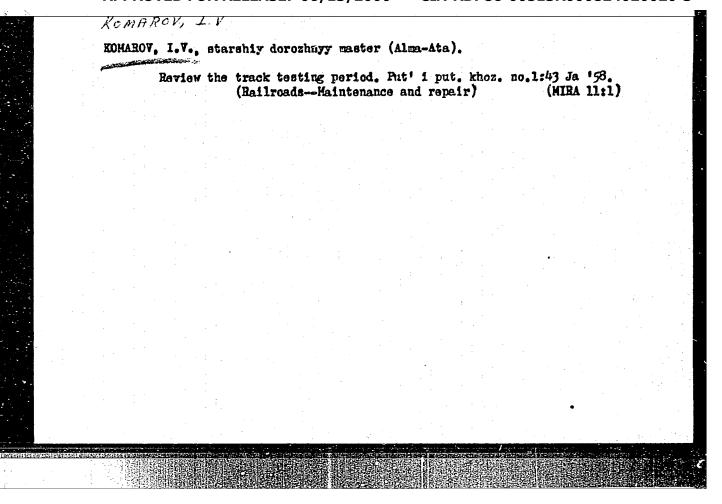
Developing rapid methods for research in engineering geology in the designing of large reservoirs. Izv. vys. ucheb. zav.; geol. i razv. 7 no.11:86-93 N '64. (MIRA 18:5)

1. Moskovskiy geologorazvedcchnyy institut im. S. Ordzhonikidze.

ISMAGULOV, K.L. (Alma-Ata); POPOV, P.I. (Alma-Ata); KOMAROV, I.V. (Alma-Ata)

"Zero" runs. Put' i put. khoz. no.10:23-24 0 '57. (MIRA 10:11)

1. Kachal'nik distantsii (for Ismagulov). 2. Zamestitel' nachal'nika distantsii (for Popov). 3. Starshiy dorozhnyy master (for
Komarov). (Railroads--Management)



KOHAROV, I.V.; KALITIN, N.T., insh.; KOGAN, N.G., insh.; LIBKIND, H.Ya., insh. (Sverdlovsk).

Value of warning signals. Put' i put. khoz. no.2:8-10 F '58. (MIRA 11:3)

1. Starshiy dorozhnyy master. Alma-Ata (for Komarov). (Railroads--Signaling)

T: 22129-66

ACC NR: APG004948

SOURCE CODE: UR/0056/66/050/001/0286/0294

AUTHOR: Demkov, Yu. N.; Komarov, I. V.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITIE: Ionization in slow collisions of two atoms

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 266-294

TOPIC TAGS: ionization potential, excitation energy, continuous spectrum, ground state, electron energy, line spectrum, wave function, excited state, particle ABSTRACT: The authors consider the reaction  $A + B + A + B^{\dagger} + e$ , in which the atoms are in the ground or in the excited states prior to the collision, but the excitation energy is smaller than the ionization potential. The simplest spherically symmetrical model is analyzed by way of an example. It is shown that the problem reduces to an analysis of the interaction of the state with an infinite number of parallel states and with a continuous spectrum, and the case is considered in which one energy level of the system crosses an infinite system of parallel levels adjacent to the ground state of the system AB. A general mathematical model is employed which yields the wave function, in the form of a contour integral, for the

Card 1/2

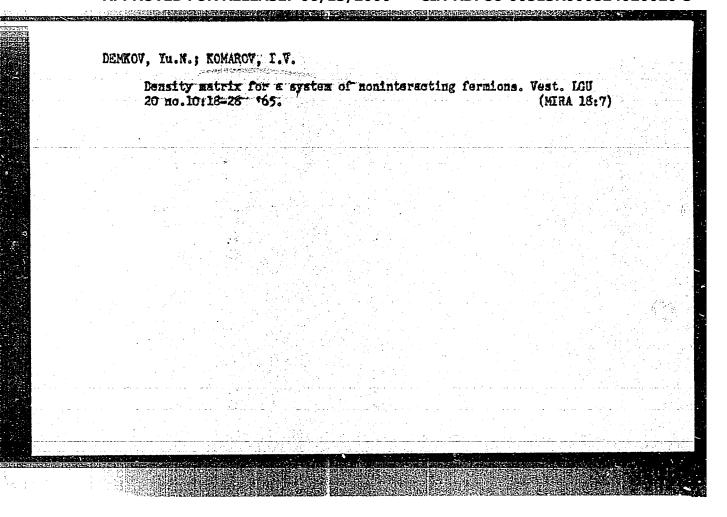
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ACC NR: AP6004948

nonstationary problem of the interaction between a system of parallel states and a state that intersects this system. Use is made of a mathematical formalism which is described elsewhere (DAN SSSR, in press), and whose earlier simpler applications were described by one of the authors earlier (Demkov, ZhETF v. 49, 885, 1965 and others). The kinetic energy of the atoms is assumed to be much higher than the ionization potential, so that the motion of the nuclei can be chosen classically and the corresponding nonstationary problem can be solved. The method can also be used in a quantum description of the nuclear motion which is required when the nuclear energy is near the threshold, provided the system of parallel levels is horizontal or only slightly inclined. The probabilities of ionization and of the formation of highly excited states are derived, and the smooth transition from the discrete spectrum (excitation) to the continuous spectrum (ionization) is traced. The limits of applicability of the theory are considered. Orig. art. has: 3 figures and 22 formulas.

SUB CODE: 20/ SUBM DATE: 28Aug65/ ORIG REF: 009/ OTH REF: 002

Card 2/2 12K



ACC NR: AP/003213

SOURCE CODE: UR/0056/66/051/006/1712/1721

AUTHOR: Komarov, I. V.; Yanev, R. K. (Research associate)

ORG: [Komarov] - Leningrad State University (Leningradskiy gosudarstvenny universitet); [Yanev] - Institute of Nuclear Sciences "Boris Kidric," Belgrade, Yugoslavia (Institut yadernykh nauk "Boris Kidrich")

TITLE: Molecular-term splitting in two-electron exchange

SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1712-1721

TOPIC TAGS: term splitting, charge exchange, asymptotic solution, variational method

ABSTRACT: The purpose of the investigation was to obtain an asymptotic experession for the term splitting produced when two atoms exchange a pair of electrons. It is pointed out that an earlier calculation by a variational method (I. K. Fetisov and O. B. Firsov, ZhETF v. 37, 95, 1959) was in error because of a poorly chosen trial function. It is shown that to obtain correct results it is necessary to choose for the zeroth approximation either the wave function of the isolated atom, or at least a function that approaches it asymptotically. When this is done, an asymptotically exact formula can be obtained for the splitting at large internuclear distances. The influence of th spin of the electrons that do not participate in the exchange is taken into account. The cross sections for double charge exchange in inert gases are calculated and are compared with earlier calculations and with the experimental data. While a rough agreement is observed, it is pointed out that the available ex-

Card 1/2

ACC NR: AP7003213  perimental data pertain to velocities lying near the limit of applicability of the										
presented theory. Experiments at lower velocities are therefore needed for a more reliable comparison. The authors thank Yu. N. Demkov for interest and valuable discussions. Orig. art. has: 2 figures and 38 formulas.										
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BONDARENKO, T.M.; GORBOV, V.G. [Horbov, V.H.]; KOMAROV, I.Z.; VOYTOVICH, O.S. [Voitovych, O.S.]; KAMINSKIY, F.T. [Kamins'kyi, F.T.]; YAKOVLEVA, Ye.O. [IAkovlieva, IE.O.]; YAKOVLEV, S.B. [IAkovliev, S.B.]; YAVONENKO, O.Ya. [IAvonenko, O.IA.]; VISHCHUN, I.A., red.; ALEKSANDROV, M.O., tekhn.red.

[Our territory; brief guide-reference book] Mash krai; korotkyi putivnyk-dovidnyk. Kykolaiv, Kykolaivs'ke obl.upr.kul'tury, 1958. 94 p. (MIRA 13:2)

 Nikolayev. Oblastnyi kraieznavchyi muzei. (Nikolayev Province--Guidebooks)

# KOMAROV, K.

Important factor in solving the basic economic problem. Sots. trud no.3:17-23 Mr '58. (MIRA 13:3) (Technical education)

SHIRYAYEV, A.F., inzh., red.; KOMAROV, K.I., inzh., red.; DUGINA, N.A., tekim. red.

[Improving the technology of founding] Sovershenstvovanie tekhnologii liteinego proizvodstva. Moskva, Gos. nauchnotekim.izd-vo mashinostroit.lit-ry, 1961. 138 p.

(MIRA 15:2)

1. Uralvagonzavod, Nizhniy Tagil.

(Founding)

KOMAROV, L.

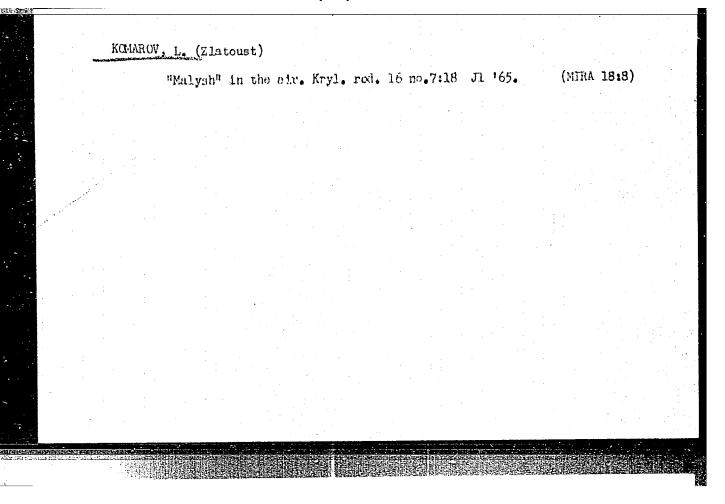
Result of teamwork. Kryl.rod. 7 no.1:16 Ja '56. (MLRA 9:5)

1. Zamestitel' predsedatelya Bryanskogo oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu. (Military education)

KOMAROV, L.; SHKIRKIN, G., starshiy nauchnyy sotrudnik; KOIGANOV, N., starshiy nauchnyy sotrudnik

Modernizing the ONK-B sprayer. Zashch. rast. ot vred. 1 bol. 10 no.10:27-29 '65. (MTRA 18:12)

1. Zaveduyushchiy laboratoriyey Pushkinskey mashincispytatel noy gtantoii (for Kemerov). 2. Institut sadovodstva imeni I.V. Michurina (for Shkirkin, Kolganov).



KOMAROV, LEV ALEKSEYEVICH

Planironvaniye Podgotovki i Raspredeleniya Spetsialistov v SSSR. Moskva, Ekonomizdat, 1961,

104 p. Tables.

Bibliographical Footnotes.

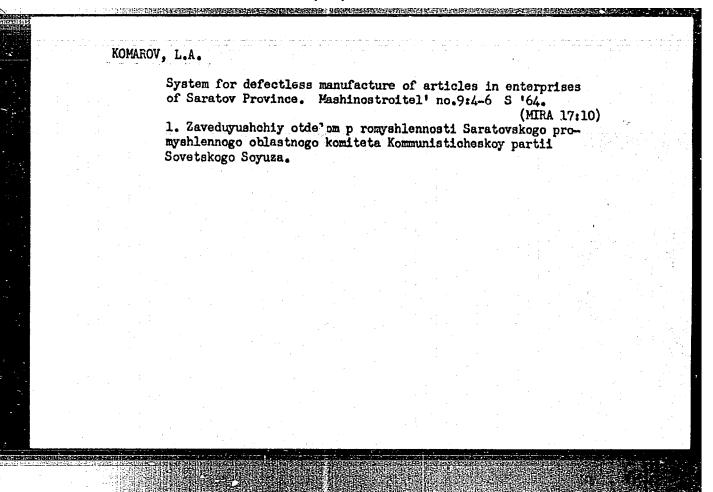
ANDREYEV, V.P.; BUTKOVSKIY, N.I.; KOMAROV, L.A.; KUDINOV, V.S.;

MASHANSKIY, G.S.; MERKIN, R.M.; MERKULOV, V.A.;

ZEMLYANIKIN, S.A.; BOLOMIN, V.V.; SHOLOKHOV, Ye.I.;

PEREPELITSKAYA, A.G., red.; AVDEYEVA, V.A., tekhn. red.

[Toward the new achievements; the Russian Federation in 1963, concise handbook] K novym rubezham; Rossiiskaia Federatsiia v 1963. godu. Kratkii spravochnik. Moskva, Sovetskaia Rossiia, 1963. 284 p. (MIRA 16:10) (Russia--Economic policy--Handbooks, manuals, etc.)



VOLODIN, Boris Grigor'yevich; GANIN, Mikhail Pavlovich; DINER, Isay Yakovlevich; KOMAROV, Lazar' Borisovich; SVESHNIKOV, Aram Arutyunovich, doktor tekhn. nauk, prof.; STAROBIN, Kalman Berkovich; GINZBURG, R.I., kand.tekhn.nauk, retsenzent; CHEREDNICHENKO, N.Ya., kand. tekhn.nauk; retsenzent; SHAYKEVICH, I.A., red.; KONTCROVICH, A.I., tekhn.red.

[Manual for engineers on the solving of problems in probability theory; collection of basic formulas, typical solutions, and problems for exercises] Rukovodstvo dlia inzhenerov po reshenitu zadach teorii verciatnostei; sbornik osnovnykh formul, tipovykh reshenii i zadach dlia uprazhnenii. [By] B.G.Volodin i dr. Leningrad, Sudpromgiz, 1962. 422 p. (MIRA 15:7)

(Probabilities)

KOMAROV L.B.

PHASE I BOOK EXPLOITATION

SOV/6203

Volodin, Boris Grigor'yevich, Mikhail Pavlovich Ganin, Isay Yakovlevich Diner, Lazar' Borisovich Komarov, Aram Arutyunovich Sveshnikov, Doctor of Technical Sciences, Professor, and Kalman Berkovich Starobin

Rukovodstvo dlya inzhenerov po resheniyu zadach teorii veroyatnostey; sbornik osnovnykh formul, tipovykh resheniy i zadach dlya uprazheniy (Handbook for Engineers on the Solution of Problems in the Theory of Probability; Collection of Basic Formulas, Typical Solutions, and Practice Problems) Leningrad, Sudpromgiz, 1962. 422 p. Errata slip inserted. 14,300 copies printed.

Ed. (Title page): A. A. Sveshnikov; Reviewers: R. I. Ginzburg, Candidate of Technical Sciences, and N. Ya. Cherednichenko, Candidate of Technical Sciences; Ed.: I. A. Shaykevich; Tech. Ed.: A. I. Kontorovich.

PURPOSE: This handbook is intended for engineers, scientific workers, and students at schools of higher education interested in applying formulas of

Card 1/1

7

VOLODIN, B.G.; GANIN, M.P.; DINER, I.Ya.; KOMAROV, L.B.; SVESHNIKOV, A.A., zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk, prof.; STAROBIN, K.B.; DONCHENKO, V.V., red.; BLAGOVESHCHENSKIY, Yu.N., red.

[Problems in probability theory, mathematical statistics, and theory of functions of random variables] Sbornik zadach po teorii veroiatnostei, matematicheskoi statistike i teorii sluchainykh funktsii. Moskva, Nauka, 1965. 632 p. (MIRA 18:10)

- 1. KOMAROV, L. I.
- 2. USSR (600)
- 4. Hedges
- 7. dedge for an experimental school garden. Est. v shkole no. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

How to improve the URD-52 defectoscope. Put'i put.khoz.
no.12:22 D '58. (MIRA 12:1)
(Railroads-Equipment and supplies)

Investigating a chopping apparatus with a pneumatic throwing device.

Mekh. 1 elek. sots. sel'khoz. 19 no.4:16-19 '61.

(MIRA 14:11)

1. Fushkinskaya mashinoispytatel'naya stantsiya.

(Combines (Agricultural machinery))

(Corn(Maize)—Harvesting)

KOMAROV		
	Second edition of a useful book, Puttl put. Enrol 2 ap.	19:33 (64) (MIPA 17:12)
	1. Stantsiya Brest I Pelorusskoy morogi.	27.227

ACCESSION NR: AP4040373

S/0185/64/009/004/0349/0354

AUTHOR: Komarov, L. I.; Fisher, I. Z.

TITLE: Neutron and Optical Spectra as Sources of Information on the Motion of Molecules in Liquids /Paper presented at the Shestoye Soveshchaniye po Fizike Zhidkogo Sostoyaniya Veshchestva, Sixth Conference on the Physics of the Liquid State of Matter, Kiev, 1963/

SOURCE: Ukrayins'ky\*y fizy\*chny\*y zhurnal, v. 9, no. 4, 1964, 349-354

TOPIC TAGS: liquid state, liquid state physics, liquid molecular motion, molecular radial density distribution, molecular correlation function, many-body problem, Van Hove time molecular distribution function, Rayleigh scattering, neutron scattering, fluctuation theory

TRANSLATION: The Van Hove time molecular distribution formalism is introduced and applied to the description of such kinetic properties of condensed phases as correlation and autocorrelation functions and fluctuations. The possibilities of obtaining information about these functions from experimental data are studied

Card 1/2

CIA-RDP86-00513R000824020020-3

ACCESSION NR: AP4040373

in detail. It is shown that the Rayleigh scattering spectrum can be used to determine the asymptotic behavior of the Van Hove functions with respect to distance and time. Low energy neutron scattering by liquids is considered in detail with a view toward extracting information about nolecular distributions. The high frequency limit of sound propagation in liquids is considered, and the possibility of the existence of transverse waves in liquids is likewise treated. The phonon approach of solid state usage is modified to treat the neutron scattering problem in liquids. Though neutron scattering differential cross-sections and the angular distribution of Rayleigh scattering are not expected to be precisely conformal, they are expected to be closely related. Very low energy neutron scattering is recommended as a tool for studying the nature of molecular behavior which gives rise to the dispersion of elastic and kinetic coefficients in liquids at the high frequency limit. Orig. art. has 17 numbered equations.

ASSOCIATION: Belorusskiy Gosuniversitet, Minsk (Byelorussian State University)

SUBMITTED: 00

SUB CODE: OP,GP

DATE ACQ: 13May64

NO REF SOV: 006

ENCL: 00

OTHER: 001

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S/056/62/043/005/046/058 B125/B104

AUTHORS:

Komarov, L. I., Fisher, I. Z.

TITLE:

On the theory of the Rayleigh scattering of light in fluids

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1927 - 1933

TEXT: A molecular theory of the intensity and spectrum of the Rayleigh scattering of light in liquids or dense gases is formulated without using the thermodynamical theory of fluctuations. This paper is a transcript of one by L. Van Hove (Phys. Rev., 95, 249, 1954) from the "language" of scattering of neutrons to the "language" of scattering of light. N is the number of molecules contained in the volume V and R<sub>1</sub>(0) (i = 1,2,...,N) indicates the nomitton of the contained

indicates the position of the particles at a certain initial moment,  $R_1(t)$  is their position at a later moment. The spectral density

 $I'(R,\omega) = \frac{\alpha^2 \omega^4 N}{2\pi c^2 R^3} I_0 \sin^2 \gamma \int_{(V)} d\mathbf{r} \int_{-\infty}^{\infty} dt \times \exp\left\{i\left(\mathbf{k}_0 - \frac{\omega R}{cR}\right)\mathbf{r} - i\left(\omega_0 - \omega\right)t\right\} G(|\mathbf{r}|, I),$ (21)

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On the theory of the Rayleigh ...

S/056/62/043/005/046/058 B125/B104

of the intensity of the scattered light is a Fourier transform of a space-time molecular Van Hove function  $G(|\vec{r}|,t)$  of the scattering system.  $\cos \vec{r} = |\vec{E}_0\vec{R}|/R|\vec{E}_0|$ ;  $I_0$  and  $\vec{E}_0$  are the intensity and the electrical vector of the incident radiation.  $G(|\vec{r}|,t)$  is (with an accuracy up to the coefficient  $N^{-1}$ ) the density of the relative probability of finding a certain particle, at the instant t, at a distance  $\vec{r}$  from the initial position of any given particle in the system. After scattering through the argle of  $O^0$  has been excluded, G has to be replaced by G-1. The integrato the formula

$$I'(\mathbf{R},\omega) = \frac{2x^2\omega^4N}{c^4R^2} I_0 \sin^2\gamma \int_0^\infty r^2 dr \frac{\sin \kappa r}{\kappa r} \int_{-\infty}^\infty dt \left(G(r,t) - 1\right) e^{i\Omega t}. \tag{25}$$

or, with  $G(\vec{r},0) = \delta(\vec{r}) + g(|\vec{r}|)/v$ , to the formula

$$I'(R,\omega) = \frac{\alpha^2 \omega^4 N}{c^4 R^2} I_0 \sin^2 \gamma \delta (\omega - \omega_0) \left\{ 1 + \frac{4\pi}{v} \int_0^{\infty} (g(r) - 1) \frac{\sin \kappa r}{\kappa r} r^2 dr \right\}. \quad (27).$$

In contrast to the static theory, the present dynamic theory yields a certain definite spectrum of the frequencies in scattering. The formulas

On the theory of the Rayleigh ...

S/056/62/043/005/046/058 B125/B104

(25) and (27) yield equal intensities of the scattered light (aside from corrections of the order of  $(v/c)^2$ ). The polarizability of one molecule in the field of the neighboring molecules is therefore  $\alpha = v^2(-\partial \epsilon/\partial v)_T/4\pi$ , where  $\epsilon$  is the dielectric constant. Up to now, the spectrum of scattered light cannot be calculated from formula (25).

ASSOCIATION: Belorusskiy gosudarstvennyy universitet (Belorussian State University)

SUBMITTED: June 19, 1962

Card 3/3

ACCESSION NR: APLICOCHIL

5/0046/63/009/004/0427/0433

AUTHORS: Kacharskaya, L. V.; Komarov, L. I.; Fisher, I. Z.

TITLE: Hypersound and slow neutron scattering in liquids

SOURCE: Akusticheskiy zhurnal, v. 9, no. 4, 1963, 427-433

TOPIC TAGS: hypersound neutron wave diffraction, liquid hypersound neutron wave diffraction, high frequency hypersound, hypersound neutron scattering, slow neutron scattering, hypersound slow neutron scattering, hypersound neutron scattering spectrum, hypersonic radiation, neutron scattering, neutron, scattering, hypersound

ABSTRACT: The conditions leading to neutron wave diffraction on hypersounds in liquids are analyzed, and conditions for building an experimental apparatus specified. Slow neutron scattering is found to be the most suitable because of the requirements of very high frequencies for the determination of hypersounds in fluids. The expression for the neutron energy E and momentum p during and after the scattering is represented by

 $E - E_0 = \pm u(\Omega) |p - p_0|$ 

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where u(\O) car scattering angl the form	n be calculated by experim les 0 and small values of	entally determining p of \DE/2mu <sup>2</sup> this expres	or E. For small sion is written in	
	$\Delta E pprox \pm rac{2G_0 \epsilon}{\sqrt{rac{2E_0 \epsilon}{m}}}$	in 0		
The discussed n	eutron diffraction charact	Anistica and shared	have no analogies	
neutron scatter	ry, with auxiliary peaks i ing. This effect may yiel the limits of high frequen	n the neutron spectrum	at zero angle	
ASSOCIATION: B. University)	elorusskiy gosudarstvennys	y universitet, Kinsk (1	Syslorussian State	
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17-65 SWT(m) ION MR: AP5004388 8/0056/65/048/001/0145/0150 Nomarov, L. I. 14 Contribution to the theory of the bulk was leavy coefficient : Thurnal exsperimental'noy i teoreticheckov fiziki, v. LA, no. 1, 1965, This: blik viscosity, viscosity party of the modynamic one, viscous liquid, sound speed of the shown that by using a sustantial countries from formation it is The coefficient of bulk viscoulty for the coefficient of bulk viscoult that the coefficient of burk ris only is a authorically isolated is determined by a complex function of the frequency and some of the proof this frequency are investigated. The back was party and the elasticisombined in a single complex coefficient of bulk viscosity, which relates

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registion of the trace of the stress sensor to the variation of the density, suplex coefficient can be obtained from the Fourier transform of the corem function of the pressure fluctuations in the system. The mean pressure fluctuations in the system. The mean pressure is in the adiabatically isolated system is expressed in terms of the of isotropic compression at high frequencies. The results obtained from the adiabatically fluctuation theory leads to a different expressed the differences between the high- and low-frequency expressions is sole for liquids with noticeable dispersion of the speed of sound, and stically the same for low-viscosity liquids. It is grateful to I. Z. ion a critical discussion of the results and for useful advice." Orig.

TION: Belorusskiy gosudarstvennyy universitet (Belorussian State

TED: 25May64

ENCL: OC-

SUB CODE: ME, GP

© SOV: 005

OTHER: 006

KOMAROV, L.I., mladshiy nauchnyy sotrudnik

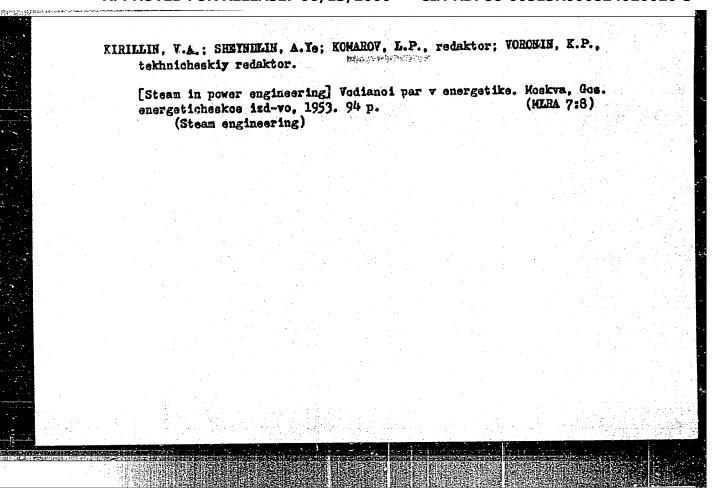
Better organization of cotton fabric dyeing with sulfide dyes. Tekst. prom. 25 no.4:57-59 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut netkanykh tekstil'nykh materialov.

EMP(j)/EMT(m)/ETC(m)\_6/T IJP(c) RM/WH ACC NR: AP6005951 SOURCE CODE: UR/0191/66/000/002/0035/0035 AUTHORS: Korshak, V. V.; Sergeyev, V. A.; Kozlev, L. V.; Komarova, L. I. ORG: none TITLE: Thermal and thermooxidative destruction of phenolformaldehyde oligomers of SOURCE: Plasticheskiye massy, no. 2, 1966, 33-35 TOPIC TAGS: phenolformaldehyde, oligomer, thermal decomposition, oxidation ABSTRACT: Chemical processes occurring in novolac phenolformaldehyde oligomers upon heating at 150-900C have been investigated by elementary analysis, titration for OH groups, and ESR and IR spectral analysis. Oligomers were prepared according to the method described by K. A. Andromov and D. A. Kardashev (Prakticheskiye raboty po iskusstvernym smolam i plastmessam, ONTI, 1936, str. 198), washed repeatedly with distilled water, and dried at 1500/1--2 mm for 15 hours. The product, containing 2% of free phenol, was subjected to thermal and thermooxidative treatment for 3--4 hours. It was catablished that the primary act in thermooxidative destruction was oxidation of methyl groups. Cross-linking during thermal Card 1/2 UDC: 678.632132121.01:536.45

ACC NR: AP6005951			
treatment of the novo etheral bonds. This bonds to dimeric ones	lac oligomers mainly occurs due to process is facilitated by convers. Orig. art. has: 2 tables and 2	o formation of aromatic ion o! polymeric hydrogen figures.	
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[A history of technology] Istoriia tekhniki. Moskva, Gos. energ. izd-vo, 1956, 491 p. (MLRA 9:12)

(Technology-History)

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[Water preparation and water operating conditions in beilers of thermal electric power plants; a collection of articles. Translated from the English, German and French] Vodopodgotovka i vodnyi reshim kotlov na teplovykh elektrostantsiiakh; abornik statei. Perevod a angliiskogo, nemetakogo i frantsusskogo. Pod red. M.S.Shkroba. Moskva, Gos.energ. izd-vo. No.4. [Thermochemical and thermal preparation of feed water for steam boilers in thermal electric power plants in the United States]. Termokhimicheskaia i termicheskaia obrabotka pitatel noi vody parovykh kotlov na teplovykh elektrostantsiiakh SShA. 1957. 79 p. (Feed-Water purification) (MIRA 10:7)

KOMAROV, V.H.; POKROVSKIY, Yu.H., kandidat tekhnicheskikh nauk, retsensent;

KOMAROV, L.P., inzhener, redaktor; STUPIN, A.K., redaktor izdatel'stva;

UVAROVA, A.Z., tekhnicheskiy redaktor

[Activities of the Russian Engineering Society in promoting machinery manufacture] Is delatel nosti Russkogo tekhnicheskogo obshchestva v oblasti mashinostroeniia. Koskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 177 p.

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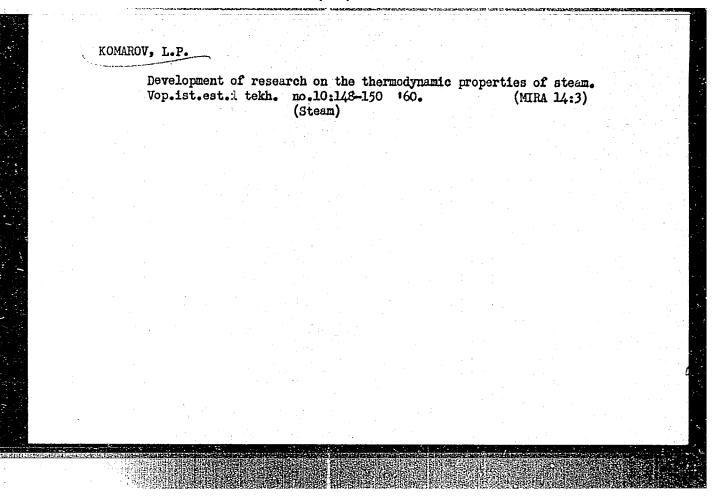
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Teplofikatsiia i teploelektrotsentrali. Moskva, Gos.energ.izd-vo.
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(Heating from central stations)
(Electric power plants)



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MEYKLYAR, Mikhail Vladimirovich; VUKALOVICH, M.P., red.; KIRILLIN, V.A., red.; KOMAROV, L.P., red.; TYURIN, P.Ya., red.; TROYANSKIY, Ye.A., red.; BORUNOV, N.I., tekhn. red.

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(Metals)

GURVICH, Semen Markovich; MANET, A.P., doktor tekhn. nauk, retsenzent; KOMAROV, L.P., red.; VORONIN, K.P., tekhn. red.

[Water treatment] Vodopodgotovka. Moskva, Gos. energ. izd-vo, 1961. 239 p. (MIRA 15:2)

(Feed-water purification)

KROL', Lazar' Borisovich; KOMAROV, L.P., red.; LARIONOV, G.Ye., tekhn. red.

[Principal features of high-pressure and super-high pressure boiler units]Osnovnye osobennosti kotel'nykh agregatov vysokogo i sverkhkriticheskogo davleniia. Moskva, Gosenergoizdat, 1962. 239 p. (MIRA 15:12)

MEYKLYAR, Mikhail Vladimirovich; KOMAROV, L.P., red.; BUL'DYAYEV,
N.A., tekhn. red.

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Taganrog Boiler Plant] Parovye kotel'nye agregaty TKZ
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(MIRA 17:2)

IDASHKIN, S.1., kand. tekhn. nauk; LAMPEKO, S.N., retsensent [deceased];

KARAMYSHEV, I.A., nauchnyy red.; KOMAROV, L.S., red.; DEMIDOV,
Ya.F., tekhn. red.

[Precast reinforced-concrete tenks] Sbornye zhelezobetonnye rezervuary. Moskva, VNIIST Glavgaza SSSR, redaktsionno-izdatel ekii
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YEVSTROFOV, Nikoley Alekseyevich; KOMAROVA, L.S., red.; DEMIDOV, Ya.F., tekhn. red.

[Theory and practice of blasting operations in mining and construction]Voprosy teorii i praktiki vzryvnykh rabot v gornoi promyshlemosti i stroitel'stve. Moskva, VNIIST Glavgaza SSSR, Red.—izd.otdel, 1961. 44 p. (MIRA 15:8)

(Blasting)

Wondard, L. V. PA 29/49752

USSR/Medicins - Physiology, Experimental Feb 49

Medicins - Gold, Effects of

"Experiments in the Revivification of Rabbit Kars
Frozen in Liquid Oxygen," L. V. Komarov, Irkutsk Med
Inst, 3 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 5

States that the experiment in revivification of a
rabbit's ear, frozen at - 183°, is one of the first
steps toward solving the problem of complete anabiosis of warm-blooded animals. Submitted by Acad L.
A. Orbeli, 10 Dec 48.

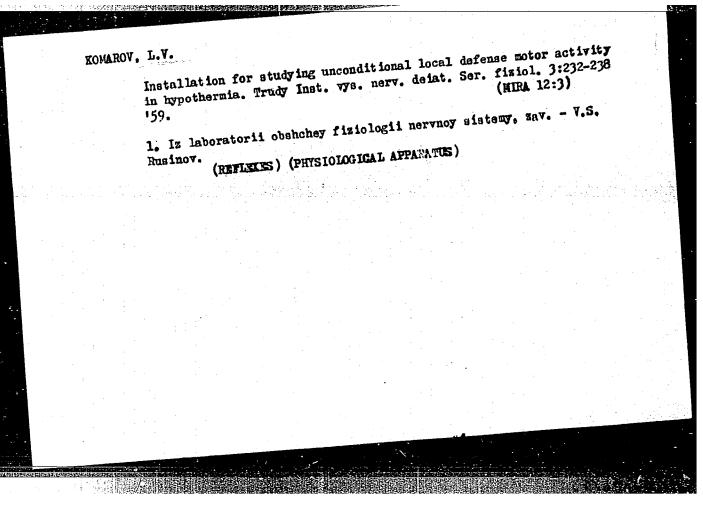
KOMAROV, L.V.

IRKUTSK Med. INST.

30130. KOMAROV, L. V. Opyt razdel'nogo okhlazhdenia tulovishcha i golovy teplokrovnogo pri bolee bystrom snizhenii temperatury tulovishcha. (Akademia nauk SSSR. Doklady. Novaa seria, Sept. 1951. t. 80, no. 2, p. 281–83, table) Title tr.: Experiments on separate cooling of the trunk and head in warm-blooded animals with quicker lowering of temperature of the trunk.

Contains an account of 22 experiments with cats whose trunks were cooled with snow, or snow and water while the heads were kept in warm water or air. Respiration, heartbeat, rectal and oral temperatures were recorded as well as the temperatures at which respiration ceased.

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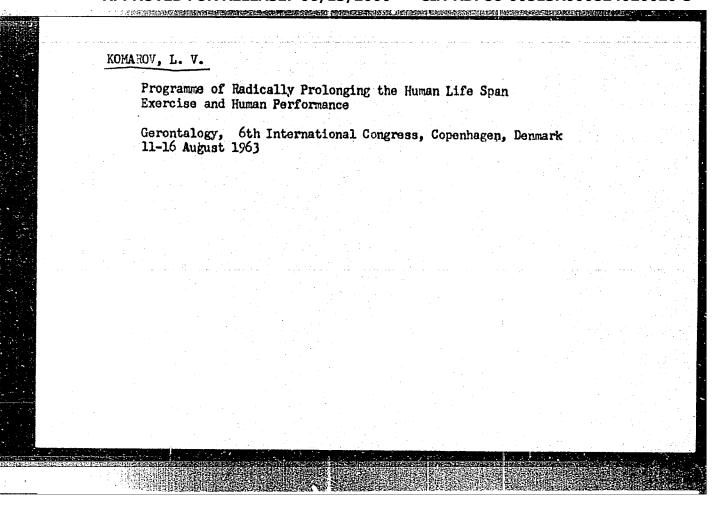


KOMAROV, L.V.

Some individual characteristics of local unconditioned reflex defense activity in white rats. Trudy Inst. vys. nerv. deiat. Ser. fiziol. (MIRA 14:12)

1. Iz Laboratorii obshchey fiziologii tsentral'noy nervnoy sistemy zhivotnykh, zav. - V.S.Rusinov. (REFLEXES)

Age-related changes occurring in a localized defensive unconditioned reaction in white rats. Trudy Inst.vys.nerv.deiat. Ser.fiziol. (MIRA 16:2) 7:279-287 '62. (REFLEE) (AGE)



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ROMAROV, L.Ye.

Packing foundry molds by means of pressing, vibro-pressing and vibration, Lit. proizv. no.11:10-15 N '57. (MIRA 10:12) (Holding (Founding))

KOMAROV, L. Ye., Cand of Tech Sci -- (diss) "Studying the Processes of Compacting Casting Moulds," Moscow, 1959, 16 pp (Ministry of Higher and Secondary Special Education, USSR. Moscow Higher Technological School im Bauman) (KL, 7-60, 108)

18(0) AUTHOR:

Komarov, L. Ye.

SOV/30-59-7-45/50

TITLE:

Scientific Basis of Production Methods in Foundries (Nauchnoye

obosnovaniye metodov liteynogo proizvodstva)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 7, pp 119-120 (USSR)

ABSTRACT:

The Institut mashinovedeniya Akademii nauk SSSR (Institute of Mechanical Engineering, Academy of Sciences, USSR) held a conference on the theory of casting in Moscow, April 22-24. It was devoted to problems of improving the quality of the products and increasing the accuracy of castings. V. I. Dikushin stated in his inaugural address that the country's industry each year had to transform more than 2,000,000 t of metal from castings into chips. Scientists, engineers, and technologists ought therefore to endeavor as quickly as possible to find ways and means of how to approximate the dimensions of raw castings to those of the finished parts. B. B. Gulyayev stated that the development in the field of accuracy in foundry production was carried out too slowly and not to the extent necessary. P. N. Aksenov reported on the main tasks of accuracy investigations of castings in dependence on technological factors and recommended in particular

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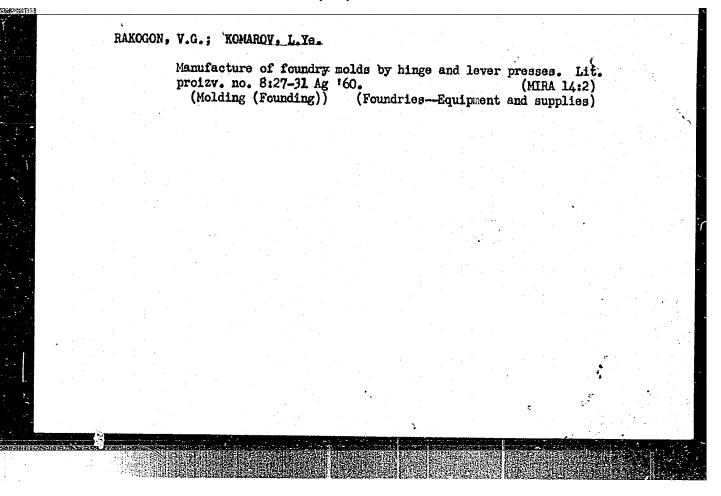
Scientific Basis of Production Methods in Foundries SOV/30-59-7-45/50

the methodology developed by V. M. Shestopalov. P. P. Berg examined the concept of nominal dimensions with reference to castings. Yu. Ya. Vorob'yev furnished data on theoretical and experimental investigations of the accuracy of castings. I. P. Yegorenkov reported on the development of a system of admixtures for the dimensions of the castings. An analysis of the effect of admixtures on the dimensions of cast parts was given by Ye. C. Kopanevich and S. A. Kazennov. G. I. Nikol'skiy, L. Ye. Komarov, S. S. Zhukovskiy, V. O. Yakovlev, S. N. Fomchenko, B. B. Gulyayev reported on the cleanness and accuracy of cast parts. I. F. Kolchin and V. V. Ryzhenkov described experiments aiming at an improvement of the cleanness and accuracy of large castings in sand molds. M. P. Ivanov presented the results of investigations in regard of the influence of the chemical composition of cast iron on the accuracy of castings. The reports by N. N. Rubtsov and I. L. Zelikov, B. B. Gulyayev and M. F. Makel'skiy, I. I. Goryunov, Ye. N. Mikheyeva were devoted to questions of the accuracy of castings safeguarded by special methods. The conference outlined the further development program for the comprehensive study of questions of casting accuracy.

Card 2/2

7(2) SC4/5438 1 BOOK EXPLOTIVATION SC4/5438	Akademiya nauk 1958. Institut mashinoredeniya	trudy, tom 1: Veoraya nauchno-tekhnicheskaya konferentalya aspirantovi andachikh nauchnykh sortumikov (Transactions of the institute of Machina Solence, Academy of Stiences, USSI, yol 1: Second Solentific and Technical Conference of Aspirante and Julior Solentific and Technical Conference of Aspirante and Julior Solentific Movers   Moscow, 1959. 182 p. Errata	2	ided for technical personnel engaged in it mochanisms.	COVERAGE: This collection of scientific papers, presented at a conference held July 2-3, 1950, cash with the theory of machines and aschalles, stretch of machine parts, friction and week in sachines, and machine-building complete, friction and week in sachines, and machine-building complete.	Errahler, G.S. Investigation of Resonance Properties of Mechanical,	hecretical and experimental investigations of the massition extractly recognized to the presented. The results of an investigation of presented. The results of an investigation of an investigation of the centraligal wibrator with non-linear tree are discussed.	Matricial List Dynamics of the Transition Through Resolution of Through Resolution of Through Resolution of Through Through Resolutions of Through Inserts with Angier Taken Into Amount Inserts assents of Through the Angier Principal Inserts assents during fransition through the sone of Satisfants Ansahility are though the Angier Satisfants of Through The Satisfants of Through Thr	Obligate Investigating the Process of Producing Splines on 101 No. 15 to the Continuation of the State of Mondaire State of State	Comparity Lave. Investigation of Nothods of Compasting Casting 121 The effect of vibrations on the process of compasting solds by	le to obtain united	Dengia, M.B. Investigation of Contact Areas of Hough Surfaces 133. The velkionship between the astual ontact area (consisting of elastic and plastic contact and on the surface roughness, and the material properties of two surfaces in contact is investigated. Results indicate that the size of the actual contact are and contact as auxiets that the size of the actual contact are actual contact.	Erashehin, M.D. Investigation of the Accuracy of Determining 143 an experimental investigation was made of the accuracy of describing metal investigation was made of the accuracy of describing metal wear by the indentation method, involving sessivaments of the langth and calculation of the reduction of depth of a erasent-shaped recess out into the metal surface. The sactod of investigation and the special instruments used	FARINGEMENT AND THE STATE OF LABRICANT CLYCULATION IN A FRANCE OF THE STATE OF A VATICAL-PAVOE THRUST SORVING Bred 155 IN LATE HYDRIAL STATE OF A VATICAL-PAVOE THRUST SORVING BROAD STATE OF A STATE OF THE PART AND PARTIES (WINDOW GOODING) WAS INVESTIGATED BY A STATE OF THIS STATE OF THE THIS STATE OF	Interpreted 0.10. Investigation of Stresses in Francia with Flate- ille Gross Bains The author distances an experiential and theoretical investi- factor of Stresses in compaste and solid frame fractures. The post-distance distribution of thresses and sittin are shown in distance.
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## KOMAROVA, L. Ye.

Redesigning of a chemical feed-water purification system.

Energetik 10 no.3:18 Mr <sup>1</sup>62. (MIRA 15:2)

1. Nachal'nik khimicheskogo tsekha Bogoslovskoy teploelektro-tsentrali.

(Feed-water purification)

